

Results of Radioactive Material Monitoring of Aquatic Organisms (Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J)

<Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Samples collected>

Locations	Items	General items		Radioactive materials			
		Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
J-1		○	○	○	○	○	○

<Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Site measurement item>

Locations	Items	Latitude and longitude of the location		Survey date and time		Water	Sediment				Other	
		Latitude	Longitude	Date	Time (water)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)
J-1(Surface layer)		37.4203°	140.1008°	2019/8/23	11:45	12:20	25.6	25.7	Sand	7.5Y 5/3	Shell fragments	4.2
J-1(Bottom layer)												>4.2

<Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials Water>

Locations	Items	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
		Latitude	Longitude	Date	Time (water)												
J-1(Surface layer)		37.4203°	140.1008°	2019/8/23	11:45	6.7	<0.5	1.8	7.9	11.5	0.06	1.0	<1	0.5	N.D.(0.0015)	0.0070	-
J-1(Bottom layer)						6.7	0.8	4.6	7.6	11.6	0.06	2.5	4	1.6	N.D.(0.0014)	0.0072	0.00093

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: General survey items/Analysis of radioactive materials Sediment>

Locations	Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHE} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
		Latitude	Longitude	Date	Time (sediment)							Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)		
J-1		37.4203°	140.1008°	2019/8/23	12:20	7.3	383	26.5	2.0	3.7	2.677	0.4	3.3	58.9	36.0	1.4	0.30	4.8	18	250	0.23

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Lake Inawashiro (north lakeside) I / Lake Inawashiro (south lakeside) J: Analysis items Aquatic organisms>

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
I-1 I-2 (north lakeside)	Within the lake and Nagase River	37.5047° 37.4995°	140.1143° 140.1409°	2019/8/26	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	11	0.010	Immature fish	-	-	N.D.	N.D.(3.2)	N.D.(3.0)	-
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.14	-	-	-	5.46	0.46	5.0	-
					Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0092	-	-	-	N.D.	N.D.(3.8)	N.D.(3.6)	-
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	38	0.016	Juvenile,Imago	-	-	N.D.	N.D.(2.9)	N.D.(2.9)	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	Japanese dace	15	0.10	Immature fish	-	-	9.61	0.71	8.9	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	5	0.061	Immature fish,Mature fish	-	-	7.0	N.D.(1.2)	7.0	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	Pale chub	23	0.22	Immature fish,Mature fish	-	-	3.8	N.D.(1.2)	3.8	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Pseudogobio esocinus esocinus</i>	Pseudogobio esocinus esocinus	2	0.028	Immature fish	-	-	1.8	N.D.(1.8)	1.8	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Carassius auratus</i>	Carassius auratus langsdorffii	10	2.7	Mature fish	Obscure digesta	Viscera removed	24.5	1.5	23	0.43
					Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Misgurnus anguillicaudatus</i>	Oriental weatherfish	25	0.11	Immature fish,Mature fish	-	-	1.7	N.D.(0.85)	1.7	-
J-1 (south lakeside)	Within the lake and around the Oninuma	37.4203°	140.1008°	2019/8/23	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	<i>Oncorhynchus masou</i>	Yamame trout	3	0.12	Immature fish	Stenopsyche marmorata,Fish,Ephemeroptera(larva),Terrestrial insect,Spiders,Ant,Dytiscidae(larva)	Viscera removed	0.88	N.D.(0.72)	0.88	-
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	Small mouth bass	3	0.51	Immature fish	Japanese smelt,Common prawn	Viscera removed	21.6	1.6	20	-
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	Bluegill	1	0.076	Immature fish	Obscure digesta	Viscera				